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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/650,471	08/28/2003	Matthew W. Holtcamp	2003U025.US	6128	
	90 11/09/2004	EXAMINER			
UNIVATION TECHNOLOGES, L.L.C. ATTN: KEVIN FAULKNER			LU, C CAIXIA		
5555 San Felipe, Suite 1950			ART UNIT	PAPER NUMBER	
Houston, TX	77056	1713			
			DATE MAILED: 11/09/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

1) Responsive to communication(s) filed on			Applica	tion No.	Applicant(s)		
Cabida Lu			10/650,	471	HOLTCAMP, MATTHEW W.		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extension of tunin ray be available under the provisions of 3 CTR 1.136(a). In no event, townwir, may a reply be timely filed  Extension of tuning by a savilable under the provisions of 3 CTR 1.136(a). In no event, townwir, may a reply be timely filed  Extension of term pay be specified shows the text than the provision of 3 CTR 1.136(a). In no event, townwir, may a reply be timely filed.  Extension of the provision		Office Action Summary	Examin	er	Art Unit		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILLING DATE OF THIS COMMUNICATION  Edetains of time ramy be available used the provision of 37 CFR 1.136(s), in no event, however, may a reply to timely filed after 50 k (s) MONT IS from the mailing date of this communication.  If the period from style specified below of less than they (s) days, a reply within the adductory minimum of thiny (20) days will be considered simely.  If the period from style specified below the less than they are control.  Falsare to reply width a set or extended period for reply will, by abside, cause the application to been will filed, may reduce any extended period from the mailing after the mailing date of this communication, even if firmly filed, may reduce any extended period from adjustment. See 37 CFR 1.73(b).  Status  1) Responsive to communication(s) filed on					1713		
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2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.  3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) ☐ Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) 17-27 is/are withdrawn from consideration.  5) ☐ Claim(s) 1-6 is/are allowed. 6) ☐ Claim(s) 1-16 is/are rejected. 7) ☐ Claim(s) 1-27 are subject to restriction and/or election requirement.  Application Papers  9) ☐ The specification is objected to by the Examiner.  10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.	Status						
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12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  **Itachment(s)  Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/19/03.  **Patent and Trademark Office**  **Patent and Trademark Office**  Patent and Trademark Office**  **Patent and Trademark			ano Examinor, 14	ote the attached Office	e Action of form PTC	<i>1</i> -152.	
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#### **DETAILED ACTION**

#### Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-16, drawn to a process for making a supported catalyst composition, classified in class 502, subclass 103.
  - II. Claims 17-21, drawn to a catalyst composition, classified in class 502, subclass 120.
  - III. Claim 22, drawn to a polymer, classified in class 526, subclass 348.
  - IV. Claims 23-27, drawn to a polymerization process, classified in class 526, subclass 165.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the catalyst composition can be prepared by a materially different process wherein the borane compound is reacted with support prior the addition of dialuminoxane.
- 3. Inventions Groups I and III and Groups II and III do not fall within the scope of related and distinct inventions permitted by MPEP 806.05 (a)-(i).
- 4. Inventions Groups I and IV are related as mutually exclusive species in an intermediate-final product relationship. Distinctness is proven for claims in this

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relationship if the intermediate product is useful to make other than the final product (MPEP § 806.04(b), 3rd paragraph), and the species are patentably distinct (MPEP § 806.04(h)). In the instant case, the intermediate product is deemed to be useful as a process of making catalyst for hydrogenation process and the inventions are deemed patentably distinct since there is nothing on this record to show them to be obvious variants. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions anticipated by the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 5. Inventions II and IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the catalyst can be used in a materially different process such as a hydrogenation process.
- 6. Inventions III and IV are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process

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(MPEP § 806.05(f)). In the instant case the polymer can be prepared by a materially different process wherein a metallocene with different support is used.

- 7. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 8. Because these inventions are distinct for the reasons given above and the search required for one of the groups is not required for the rest of the groups, restriction for examination purposes as indicated is proper.
- 9. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 10. During a telephone conversation with attorney Kelvin Faulkner on November 2, 2004 a provisional election was made without traverse to prosecute the invention of Group I, claims 1-16. Affirmation of this election must be made by applicant in replying to this Office action. Claims 17-27 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

### Specification

11. The disclosure is objected to because of the following informalities:

The R' groups in the formula (I) of page 6 seem to be both divalent and monovalent groups: divalent when between "Z" and "AI" and monovalent when at the end of formula (I). Therefore, (i) the monovalent alkyl group cannot be correctly used to

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define both R' groups in the formula, and (ii) the neutral compound "aryl halogen" group cannot be used to define the monovalent and divalent R' groups respectively.

Appropriate correction is required.

## Claim Rejections - 35 USC § 112

- 12. The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 13. Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as failing to set forth the subject matter which applicant(s) regard as their invention. Evidence that claims 1-7 fail(s) to correspond in scope with that which applicant(s) regard as the invention can be found in specification. In the specification, a supported catalyst system must comprise a catalyst complex, however, the catalyst complex component is not included in the instant claims.
- 14. Claims 5 and 6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The R' groups in the formula of claim 5 seem to be both divalent and monovalent groups: divalent when between "Z" and "Al" and monovalent when at the end of formula. Therefore, (i) the monovalent alkyl group cannot be correctly used to define both R' in the formula, and (ii) the neutral compound "aryl halogen" group cannot be used to define the monovalent and divalent R' groups respectively.

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## Allowable Subject Matter

15. Claims 1-16 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Kolthammer et al. (US 5,763,547) teaches a process for the preparation of a supported catalyst composition by contacting silica support with aluminoxane to provide a aluminoxane treated support, contacting the treated support with a metallocene complex and then followed by  $B(C_6F_5)_3$ . Kolthammer does not teach or reasonably suggests reacting the borane with the aluminoxane treated silica prior the addition of metallocene catalyst as the process of the instant claims. Furthermore, applicant's Comparative Example 2 have shown when the supported catalyst composition is prepared by replacing dialuminoxane of the instant claims with aluminoxane, the activities of the catalyst decrease dramatically. In view the above, the subject matter of the instant claims are deemed to be novel.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Caixia Lu whose telephone number is (571) 272-1106. The examiner can normally be reached from 9:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful and the matter is urgent, the examiner's supervisor, David Wu, can be reached at (571) 272-1114. The fax numbers for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1700.

Caixia Lu, Ph. D. Primary Examiner

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